

**Monthly Meeting**  
**Friday March 20, 2015**  
**7:30pm**  
**IN THE SANCTUARY**  
 Our Saviors Lutheran Church  
 1035 Carol Lane, Lafayette  
**License Testing at 6pm**

|                                |          |
|--------------------------------|----------|
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**THIS MONTH'S MEETING**  
**WILL BE HELD IN THE**  
**CHURCH SANCTUARY SO**  
**USE UPPER PARKING LOT**



**March is California**  
**Prescription Drug**  
**Abuse Awareness**  
**Month**

## March Meeting Program

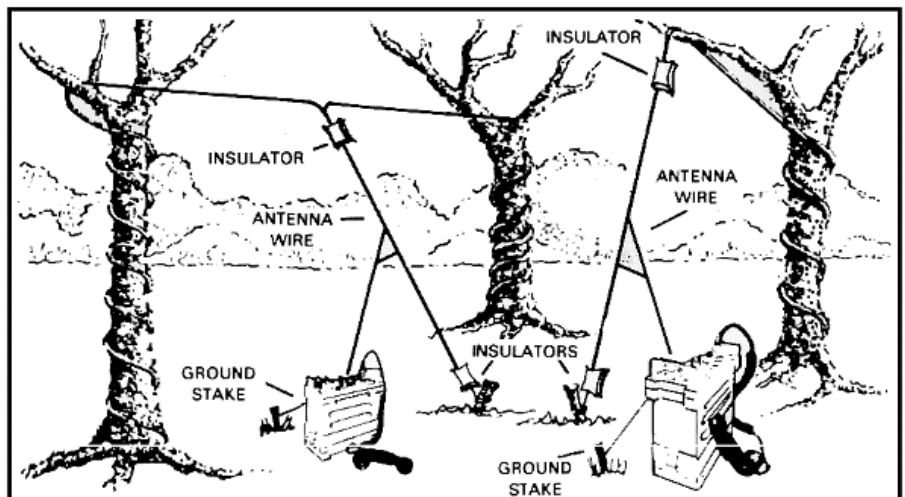
# How to Tune an Antenna



**Presented by**  
**Trevor Hall,**  
**WA6JAU**

Trevor has worked in radio communications for over forty years and has been an amateur radio operator since 1972.

His current amateur license is Extra Class.



# ANNUAL AUCTION ANNOUNCEMENT

Our annual auction will be held on April 17th at our regular meeting place in Lafayette. Our process will be the same as it has for the last 3 years. The first step when you arrive is to sign out a bidder's card. As a seller, this will be your number for your item cards. As a buyer, you will display this number if you are the successful bidder. Please, return these cards to us when you leave for the evening.

## Sellers

When you get your bidders card, bring your items into the room and place them on one of the work tables inside the door. Figure out how many items you are going to enter into the auction. You can then go back to the sign-in table and they will give you item cards for your auction items. If you wish, we can provide a form ahead of time that you can print for yourself. There are 6 cards on each sheet of paper. Cut the item cards apart and fill out the description etc. before you arrive. Once your cards are filled out and your bidder's number has been filled in the Seller # space, we will stamp an item number on the cards. At that time, please take the bottom tab from the card. If you printed the cards yourself, we have scissors to cut the receipt from the bottom of the card. This is your receipt for claiming your money. If the proceeds from any of your items are to be donated to MDARC, please use 1 as the Seller #. It is important that the items be placed in item number order on these tables. After your items are sold and the buyer has paid for them, you may collect the amount due to you. Remember that the club will charge a 10% commission on each item (rounded off to the nearest nickel)

## Buyers

Use the provided bidder's card to place your bid. Bid with the red side of the card and, if you are the successful bidder, show the number on the back of the card to the computer operator in the front of the room so that he can record that information along with the selling price. Purchases may be paid for with cash or checks. Credit cards will not be accepted. There is no additional fee to the buyer.

See Page 4 for Auction Card Examples.

73, Bill Swindell, K1LED

ALL MEMBERS ARE INVITED TO JOIN  
THE CLUB YAHOO GROUP.  
DOWNLOAD FILES, INCLUDING *THE  
CARRIER* IN **FULL COLOR** AS WELL AS  
SHARE INFORMATION WITH THE  
MEMBERSHIP AT:

**<http://groups.yahoo.com/group/mdarc>**

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**Mount Diablo Amateur Radio Club W6CX**  
**P.O. Box 23222 Pleasant Hill, CA 94523**  
**(925) 288-1730**

*The Carrier* is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

**President** - Mike Patterson, N6JGA  
**Vice President** - Will Dickson, WB6YGI  
**Secretary** - David Molstad, WB0HNY  
**Treasurer** - Bill Swindell, K1LED

**Technical Committee Chair**  
Trevor Hall, WA6JAU wa6jau@sbcglobal.net

**Directors At Large**  
Trevor Hall, WA6JAU Mitchell Boyce, W8DOD  
Janice Fujii, KG6VTD Francis O'Leary, KF6FRJ

**Emergency Coordinator** - Ron Bunch, W4FEK

**PACIFICON 2015**  
Chair: Trevor Hall, WA6JAU  
Vice Chair: Dave Gordon, N6SWE  
Registration: Misa Siemons, KJ6BUE  
Treasurer: Mike Patterson, N6JGA  
Secretary: Pete Harris, KE6ZIW  
Web Page: David Witkowski, W6DTW

**Membership Chair** - Tom Deeble, KA6SIP  
mdarcmembership@mdarc.org  
Website - David Schild, KK6CQX  
Repeater Trustee - Jay Caldis, KT6Y  
Education & Training Chair - John Primus, AF6RJ  
Youth Education - Steve Rogge, K6XZ  
License Testing - Larry Loomer, KI6LNB  
Public Service - Pete Harris, KE6ZIW  
Field Day Chairs - Lauren Styles, WA6CIE and  
Elizabeth Styles, KG6HLV  
Refreshments: Elizabeth Styles KG6HLV  
Holiday Party - Misa Siemons KJ6BUE  
Annual Picnic - Lauren Styles, WA6CIE  
Trailer - Patrick Miller, KK6DBX

**The Carrier** Newsletter  
Editor, Matthew G. Vurek, N4DLA  
n4dla\_cs245@yahoo.com  
Copy Editor - Larry Loomer, KI6LNB  
Digital Media - David Molstad WB0HNY

*Amateur Television Help and Information:*  
John Schuler, W6DTV JOHNQRZ@aol.com

## PRESIDENT'S QTC

MDARC Family -

I wasn't able to be at the February General Meeting, but I'm told it was another good one, with an excellent presentation and demonstration by Kevin Slovic, KS4FUN on his one-of-a-kind emergency response trailer. Not only did Kevin put on a great show, he's been very generous in offering documents with details of the trailer; how it was built and what is inside. If you want more information, contact Kevin at [Kevin@MartinezCERT.org](mailto:Kevin@MartinezCERT.org).

This month looks to be another good speaker as well, with our own tech-meister, Trevor Hall, WA6JAU, telling us about antenna tuning. Y'all come.

Speaking of the upcoming meeting, it will be held in the sanctuary of the church this month instead of our normal meeting room. So park in the upper parking lot this time. We'll be back in our regular location in April.

I hope you've been collecting your excess gear and cleaning out your junk box. The Annual Auction will replace our regular meeting in April. There will be no testing, business meeting or speaker. The evening is dedicated to selling the stuff you no longer need and buying the stuff you do. Doors open at 6:00 pm for sellers to register and set up their gear. The Auction begins at 7:00 pm. In a new effort to help speed seller registration, a PDF file has been posted on the MDARC Auction web page and on our Yahoo group with a set of auction seller cards. If you plan to sell something, print this file, cut out the individual seller cards and fill them in before you come. Please print legibly. Of course, seller cards will also be available on site. See our web site at <http://www.mdarc.org/> for details.

The Education and Training Committee has completed its first Technician class for the year, resulting in 15 new Technician Class Licensees and 1 new General Class Licensee. Please thank and congratulate chair John Primus, AF6RJ, and his committee when you see them. Get-on-the-Air and Auxiliary classes have begun and will continue through June. Check our web site for class topics and a schedule.

The Pacifcon Committee is finalizing registration details for our 2015 conference in San Ramon. They will open up their web page soon to registrations for both the conference and the hotel. Other information is being added to the web site as it becomes available.

Don't forget that Field Day is fast approaching. We will be located in Heather Farm Park in Walnut Creek again this year. Be sure to come by and spend some time with us, give us a contact or, better yet, volunteer to help out. If you can help, send a note to our Field Day chair Lauren Styles, WA6CIE, at [wa6cie.ham@gmail.com](mailto:wa6cie.ham@gmail.com).

Our Public Service web page for 2015 is now up, with a cool dozen events already scheduled. Public service events are one of the best ways to practice your craft, refresh yourself on (or learn about) working in a structured net, prepare for emergency response needs – and get some California fresh air in the process. What could be better? See the web site and sign up for those events you can help with.

A final reminder to renew your membership if you haven't done so already. Your dues are absolutely essential in providing the repeaters and other communications resources we offer the amateur radio and emergency response community. We simply could not do it without the financial and labor support of our members. Membership chair Tom Deeble, KA6SIP, will be sending the member list to the publisher soon for printing the annual membership directory. Also, those that haven't renewed will no longer get copies of this esteemed journal, the Carrier. Don't miss a single issue! Get your renewals in right away.

Remember that all our committees can use more help. The people we have are dedicated and do all they can to keep our Club running well, but they can only do so much. Experience is not necessary to volunteer. Let one of us know about your interest and we'll find something you'll like.

As always, all members are welcome at our Board meetings. See the last page for the date, time and location. You're also welcome at any our committee meetings. All regularly scheduled meetings of the Club, Board and committees are given on our web site at <http://www.mdarc.org/activities/club-meetings>.

73 until next time,

Mike Patterson, N6JGA, President



**MDARC LIVE AUCTION**ITEM NO. **2**

SELLER NO: \_\_\_\_\_

MINIMUM BID \$ \_\_\_\_\_

Buyer \_\_\_\_\_ Amt \_\_\_\_\_

Manufacturer:

Description:

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**CLAIM CHECK**ITEM NO. **2**

SELLER NO. \_\_\_\_\_

**MDARC LIVE AUCTION**ITEM NO. **2**

SELLER NO: \_\_\_\_\_

MINIMUM BID \$ \_\_\_\_\_

Buyer \_\_\_\_\_ Amt \_\_\_\_\_

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MINIMUM BID \$ \_\_\_\_\_

Buyer \_\_\_\_\_ Amt \_\_\_\_\_

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SELLER NO : \_\_\_\_\_

MINIMUM BID \$ \_\_\_\_\_

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MINIMUM BID \$ \_\_\_\_\_

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SELLER NO. \_\_\_\_\_

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**CLAIM CHECK**ITEM NO. **2**

SELLER NO. \_\_\_\_\_

Board of Directors Meeting Minutes

Date February 2, 2015 Time 1900 Hours

Presided over by Board President Mike Patterson, N6JGA

Recorded by David Molstad WB0HNY Board Secretary  
Minutes recorded in accordance with Robert's Rules of Order, Fourth Edition.

The meeting was held at the at Black Bear Diner 700 Bancroft Rd Walnut Creek California  
Call or order 1900 Hours

I. Roll Call (of all attendees) names darkened not in attendance  
(UNABLE TO REPRODUCE FROM FILE SENT)

II. Approval of Minutes from last meeting David Molstad WB0HNY  
Approved with edits

III. Officers Reports

a) President Mike Patterson N6JGA

Large turnout last Club meeting  
Great testing results

b) Vice President Will Dickson, WB6YGJ

Suggestion of presenting coffee mugs rather than plaques to guest speakers.

c) Secretary David Molstad WB0HNY

Nothing to report

d) Treasurer Bill Swindell, K1LED

MDARC balance, \$66,538.71

PACIFICON balance, \$11,113.85

MDARC and PACIFICON under same tax ID number

MDARC balance includes all club assets

Budget discussion

Repeater license renewed

Meeting place rent paid

Trailer maintenance and upgrade costs increasing to \$1,500

Balance of budget for approval

Consider donation to CHRS (to be revisited)

Itemize donations?

Motion to approve by Trevor Hall, WA6JAU

Second, Janice Fujii KG6VTD

Vote unanimous for approval

Further discussion regarding self-insurance  
and maintenance allocations

IV. Committee, Coordinator Reports

a) Auction Bill Swindell, K1LED

Working on updates

Report details at general club meeting

- b) Communications Trailer    Patrick Miller, KK6DBX  
Looking for registration and Insurance documents  
Need to ascertain if trailer covered under MDARC liability insurance  
and or vehicle towing the trailer  
General repair and maintenance not part of Tech Committee budget  
Developing written plan for repair and remodel with budget
- c) Digital Media            David Molstad WB0HNY  
Next meeting at 2000 hrs Legends
- b) Education and Training    John Primus AF6RJ  
Change in the core Instruction Team  
Glen Rickert, N06W Core Instructional Manager  
Larry Loomer, KI6LNB Core Facilities Support  
The Tech classes complete  
Average attendance 30.7  
Average Elmer attendance 13.7  
Change to class schedule  
Fall Tech Class cancelled  
General Class to begin 8/06/15  
Emergency Preparedness ISO-100 begins 3/26/15 ISO-200 4/02/15  
UHF/VHF 3/12/15  
HF 10/08/15  
More class dates soon
- c) Emergency Communications    Ron Bunch W4FEK  
MOU and MOA examples being reviewed  
Emergency Preparedness Class planning underway  
ACS (Auxiliary Communication Services) Meeting  
Changed name, need to elect officers  
Emphasis on training and working with the Sheriff's Department  
Develop two groups, one to work with the Sherriiff and  
one to be prepared for disaster  
ACS and Salvation Army, looking into.  
Suggested as speaker for club meeting
- d) Field Day                Lauren Styles WA6CIE  
No report
- e) Good and Welfare    Chuck Graham KI6DCD  
George and Bertha Roush WB6OFH KE6ELP doing well  
Gary Grant, Silent Key
- f) Membership Tom Deeble KA6SIP  
For Tom  
70% of members have renewed  
Letters being mailed to remaining members
- g) Outreach                Jim Siemons AF6PU  
Outreaching



h) PACIFICON Trevor Hall WA6JAU

Meeting next Tuesday  
Budget meeting next meeting  
Banquet costs at hotel in question  
Overnight security may be needed  
Looking for Forums Chairman  
Ham 101 Sunday afternoon, crash course?  
Open registration begins in March  
PACIFICON website opens in March

i) Public Service Pete Harris KE6ZIW

For Pete  
Revising web page

j) Technical Trevor Hall WA6JAU

Meeting next Saturday  
Cell phone for club phone \$22.50 per month  
Looking for alternative  
Google?  
Jim Siemons to accept messages on Google  
New tenant on North Peak  
Requesting move of cabinets and antennas  
Working on appropriate response  
New tenant may be Cactus Group; a closed group  
Tech Committee to coordinate response and actions

k) Youth Education Will Dickson, WB6YGJ

No report

g) Committee Reports Ad Hoc

Mission statement on hold  
Audit Committee  
Catherine Walton KJ6YNO  
Jay Caldis, KT6Y  
Need Board member on committee  
Frank O'Leary volunteered  
Catherine to Chair (confirmation needed)  
Catherine to set next meeting

V) Old or unfinished business

East County Meeting deferred  
Inventory from Tech Committee  
Full inventory count  
Storage unit and trailer

VI) New Business

Phone line  
Book sales books for auction  
Liquidation of excess inventory at Action

VII) Meeting adjourned.

# HAM RADIO OUTLET

14 STORE BUYING POWER!

**ICOM**



## IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



## IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



## IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



## ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

## ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz\*\* • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



**KENWOOD**



## TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



## TM-D710G | 2M/440 Dualband

- V-V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



## TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



## TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

## TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



**YAESU**  
The radio



## FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



## FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



## FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



## FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

## FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways  
to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA  
(800) 854-6046

OAKLAND, CA  
(877) 892-1745

SUNNYVALE, CA  
(877) 892-1749

PORTLAND, OR  
(800) 765-4267

PHOENIX, AZ  
(800) 559-7388

WOODBIDGE, VA  
(800) 444-4799

PLANO, TX  
(877) 455-8750

BURBANK, CA  
(877) 892-1748

SAN DIEGO, CA  
(877) 520-9623

NEW CASTLE, DE  
(800) 644-4476

DENVER, CO  
(800) 444-9476

ATLANTA, GA  
(800) 444-7927

SALEM, NH  
(800) 444-0047

ONLINE STORE  
WWW.HAMRADIO.COM

New  
Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.





## The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

[www.mdarc.org](http://www.mdarc.org)

## FIRST CLASS



Affiliated  
Club

<https://www.facebook.com/mdarc.org>

### W6CX Nets

Monday 7:00 pm Washington High School Net 147.060+

Monday 8:00 pm SATERN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

FM 147.060 MHz + / PL 100Hz - EchoLink: W6CX-R /133896, IRLP: 3057  
224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

**D-STAR 145.000 offset plus 2.5 MHz**

<https://w6cx.dstargateway.org/>

ATV Inputs: 1289.25 MHz AM; 1277.000 FM pl 192.8 Output 1241.25 MHz AM

**ATV Internet Stream: <http://www.w6cxatv.net/live>**

### Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 146.355+ (77.0 PL)

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735+ (107.2 PL)

or 145.410 -- (107.2 PL)

### Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

## March and April 2015 Club Calendar

|                        |         |  |
|------------------------|---------|--|
| Friday March 20, 2015  | 7:30pm  | <b>MDARC General Meeting</b><br>Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette                    |
| Monday April 6, 2015   | 7:00 pm | MDARC Board Meeting<br>Black Bear Restaurant, 700 Bancroft Avenue, Walnut Creek                            |
| Saturday April 4, 2015 | 8:00 am | MDARC Technical Committee<br>Environmental Center, 2581 Harbor Street, Pittsburg                           |
| Friday April 17, 2015  | 7:30pm  | MDARC General Meeting - <b>ANNUAL AUCTION !</b><br>Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette |